Wilson™

TRUSTED TO PERFORM

Short Quick Reference

Tools for the maintenance and repair of...

BOILERS

CONDENSERS

HEAT EXCHANGERS

EVAPORATORS

CHILLERS / ABSORBERS

COOLERS

Thomas C. Wilson, LLC
www.tcwilson.com

The Wils-Away™ 1000 Cleaning a Fire Tube Boiler

The Wils-Tronic™ with the Combination Beading Expander

Wilson... A Family Tradition

Thomas C. Wilson was founded in New York, N.Y. by the late Mr. Thomas Wilson in 1925. While serving in the United States Navy as a Chief Engineer, operating the boilers for main propulsion systems aboard Naval ships, Mr. Wilson developed the first mechanical brush system to clean scales in the tubes of boilers. The Wilson Company, from that first product has been the innovators in many tools for heat exchangers, boilers and other tubular apparatus. Through its 89 years of history, its products have improved the process for many clients domestically and internationally for generations. Thomas C. Wilson is well into its 3rd generation of family ownership and continues to retain and improve its processes serving their customers needs.

Sincerely,

Stephen Hanley
Chief Operating Officer & President

Thomas C. Wilson, LLC
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Long Island City, New York 11101-5088
P (718) 729-3360 I (800) 230-2636
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The Series 909-1700 with the 114 Flare Expander

Service Hotline

If you have technical questions about any of our products, call us toll-free at **(800) 230-2636** and talk to a knowledgeable Thomas C. Wilson, LLC representative. Contact us to locate your area representative.

Customer Satisfaction / Money Back Guarantee

If, for any reason, you are not satisfied with your purchase, simply return it to us within 10 days, and we will refund the purchase price of the unit, exclusive of shipping and handling costs.

One Year Limited Warranty

Our products are manufactured, tested, and inspected in accordance with strict engineering requirements and are warranted to be free from defects in materials and workmanship.*

Delivery

Our products are delivered by all major common carriers, and next-day delivery is available. Same-day, counter-to-counter delivery is available on request.

What's on Your Mind

We're always interested in your comments! At Thomas C. Wilson, LLC we work every day to improve our product offerings and customer service. Please contact us with your comments or suggestions, or visit us online at www.tcwilson.com.

How to Order

Call toll free **(800) 230-2636** with product and part number. Our sales engineers are available Monday to Friday, 8:30am to 6:30pm EST. If you are not sure exactly what tool you need, just give our experienced staff the details and they will help you to find the right product for your application.

Visa, Mastercard or American Express accepted. Minimum order of $50.

All Thomas C. Wilson products are designed and manufactured in the U.S.A. at our New York manufacturing facilities.

* The warranty is subject to conditions and limitations. Call for details.

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Tube Cleaning Tools

Thomas C. Wilson has an extensive product line of diverse tube cleaning solutions. Electric and air-driven kits are available. Please use the chart below to determine the appropriate solution for your tube cleaning needs.

	Tools	Tube ID Inches	Description	Compatible Tubes: Heat Exchanger	Condensers	Chillers	Absorbers	Fire Tube Boilers	Water Tube Boilers	Supported Systems (Air-Driven): PG / PGX2 / TP-302	EP / FT Series	C / MS Series	ECT Series	Blo-Gun	Supported Systems (Electric / Pneumatic): Wils-Away Electric	Wils-Away Pneumatic	Wils-Matic	Competing Drive
	Expanding Brushes	1/2 to 6	Removes Soft to Powdery Deposits	■	■	■	■	■	■		■	■	■		■	■	■	
	Wheel Brushes	1/2 to 3½	Removes Soft to Powdery Deposits	■	■	■	■	■	■		■	■	■		■	■		■
	Expanding Scrapers	1/2 to 6	Removes Wet and Gummy Deposits	■	■	■	■	■	■		■	■	■		■	■	■	
	Spiral Brushes	1/4 to 4	Removes Light to Medium Debris	■	■	■	■	■	■						■	■	■	■
	Spin Grit	1/4 to 1	Cleans Enhanced / Rifled Tubes												■	■	■	■
	Spin Clean	1/2 to 1	Cleans Enhanced and Surface Condenser Tubes												■	■	■	■
	Blo-Brushes	.287–.958	Removes Light to Medium Soft Deposits											■				
	Small Cutter Heads	1/2 to 2	Removes Thin to Medium Soft or Hard Scale	■	■	■	■	■			■	■	■		■	■		
	Large Cutter Heads	1⅜ to 22	Removes Heavy, Hard Deposits					■	■		■		■					
	Cutter Bits	3/8 to 2 3/16	Cuts Through Hard Scale / Plugged Tubes	■	■	■				■								
	Drill Heads	2 to 6	Cleans Clogged Tubes / Hard Scale					■	■		■	■	■		■	■		

Wils-Away™ Electric Tube Cleaning System

Applications • Cleaning Straight and Curved Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Water Heaters, Coolers and Other Small Diameter Pressure Vessels

- 3/8 to 1½-Inch (9.5 to 38.1 mm) Outer Diameter Tubes
- Removing Light to Medium Soft Deposits

Wils-Away™ Kit Includes:

- Electric Drive Unit (either Dolly Mounted or Compact Unit)
- Foot Pedal-Single Direction
- Spare Safety Shaft Coupling (WAW-500 Series *only*)
- 25-Foot Shaft & Casing (7.6 M)
- Set of 6 Nylon Spiral Brushes

-or-

- Expanding Bronze Brush and Spare Refill Set
- Service Manual

Twin Foot Pedal (for remote forward / reverse control) is an optional accessory.

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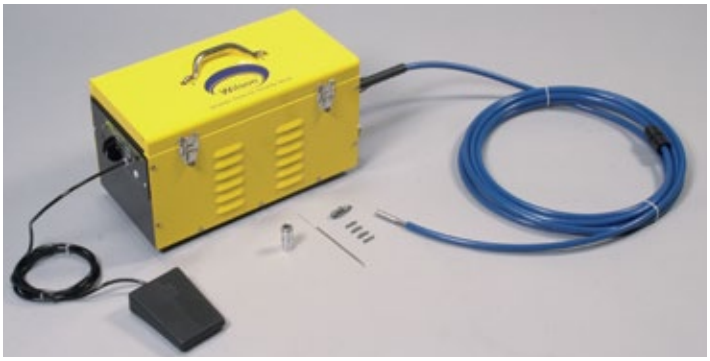
Specific Models Only

CE
Specific Models Only

Specifications	
Dolly Mounted	
Drive Unit:	55 lbs.; 12 H x 23 W x 11½ D (25 Kg; 305 x 584 x 292 mm)
Compact Drive Unit:	35 lbs.; 10 H x 18 W x 8½ D (16 Kg; 254 x 457 x 216 mm)
Speed:	1,725 rpm
Power:	1/2 HP (WAW-500 Series) 1 HP (WAW-1000 Series)



WAW-520 Compact Kit

WAW-500 and WAW-1000 Kits

Wils-Matic™ Auto Tube Puncher

Wils-Matic Kit Includes:

- Electronic Drive Unit with Portable Dolly
- Feeder Gun Assembly
- Feeder Gun Safety Harness
- Shaft & Casing — 45 feet
- Shaft Length Stop unit
- Service Manual SM-165

New and Improved!

- New Variable Speed Controy
- Compact Dolly-Mounted Drive Unit
- Lighter Weight – 15 lbs. less than before.
- Crazy Fast – Self-feeding action cleans in about half the time of manually fed units.

Applications

- Cleaning Straight Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Water Heaters, Coolers and Other Small Diameter Pressure Vessels
- 1/2 – 1¼-Inch (15.9 to 31.8 mm) Outer Diameter Tubes
- Removing Light to Medium Soft Deposits

Specifications	
Dolly Mounted	
Drive Unit:	60 lbs., 22"h x 17"w x 10"d (27 kg, 559 x 432 x 254 mm) (excluding Gun Assembly and Shaft)
Shaft Speed :	600 to 1,200 rpm (variable)
Shaft Feed Rate:	1.5 to 3 feet per sec. (0.46m to 1m per sec.)
Feed Force:	60 lbs. (267 N)
Motor Power:	3/4 HP (0.75kW)
Input Power:	15 amps
Voltage/ Frequency:	115 volt 60 Hz (220 volt 50/60 Hz available)

Flexible Shafts & Casings

Wils-Away™ Shafts & Casings are available in nylon, Teflon®, steel and steel with rubber coating. The Teflon, steel and steel with rubber coating options can only be operated dry. Various lengths are available, including 15, 25, 35, 45 and 60 feet, and are offered in most material types.

9720

9722

9724

9730-9025

MS Series Air-Driven Tube Cleaning System

Applications

- Cleaning Straight Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Small Diameter Boilers, Other Pressure Vessels Under 2 Inches Outer Diameter Pipelines
- 5/8 to 2-Inch (15.9 to 50.8 mm) Outer Diameter Tubes
- Removing Light to Moderate Scale

MS Series Kit Includes:

- MS Air Motor
- Type C Flexible Holder
- Expanding Steel Brush with Spare Refill Set
- Model A Cutter Head with 4 Spare Sets of Cutters
- 25-Foot Air Line with Couplings
- Spare Set of Rotor Blades and Wrench
- Tool Box
- Service Manual

Specifications	
Speed:	8,000 to 10,000 rpm
Air:	80 to 125 psi
Motor:	Steel rotor blades and precision ground surfaces result in high-performance and durability

PG Series Air-Driven Tube Cleaning System

Applications

- Cleaning Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Water Heaters, Coolers, Evaporators and Other Small Diameter Pressure Vessels
- 1/4 to 1¼-Inch (6.4 to 31.8 mm) Outer Diameter Tubes
- Removing Heavy Deposits and Cleaning Out Clogged Tubes

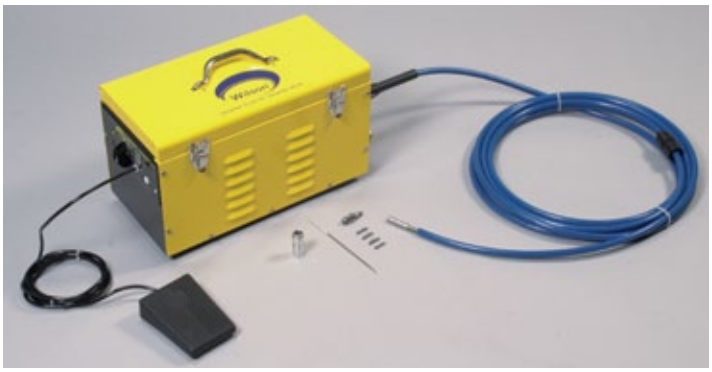
PG Series Kit Includes:

- **PG or PGX-2** Air Motor
- 4 5-Foot Drill Shafts
- 2 M Cutter Bits
- Spare Rotor Blades
- 3/8-Inch Scavenging Hose (15 Ft. / 4.5 M)
- Set of Spare Rotor Blades, Rotor Wrench and Adjustable Wrench
- Tool Box
- Service Manual

Specifications	
Speed:	8,000 to 10,000 rpm
Air:	80 to 125 psi
Motor:	Two models cover a wide range of tube sizes

Wils-Away™ Pneumatic Tube Cleaning System

Wils-Away 3000



Wils-Away 4000

Applications

- Cleaning Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Water Heaters, Coolers and Other Small Diameter Pressure Vessels
- 3/8 to 1½-Inch (9.5 to 38.1 mm) Outer Diameter Tubes
- Removing Medium to Hard Deposits
- Ideal Cleaning System When Electric Power Is Not Available
- Air Motor Enables Operator to Control Speed of Cleaning Head and Shaft & Casing Rotation

Wils-Away™ Pneumatic Kit Includes

- Dolly Mounted or Compact Drive Unit with Tool Compartment
- Flexible Shaft & Casing
- Foot Pedal
- 6 Nylon Spiral Brushes

- or -

- Expanding Bronze Brush and Spare Refill Set
- Service Manual

Specifications	
Dolly Mounted	
Drive Unit:	58 lbs.; 12" H x 23" W x 11½" D (26 Kg; 305 x 584 x 292 mm)
Compact Drive Unit:	32 lbs.; 10" H x 18" W x 8½" D (14 Kg; 254 x 457 x 216 mm)
Speed:	500 to 3,000 rpm
Air Consumption:	15 CFM @ 90 psi (WAW-3000) 40 CFM @ 90 psi (WAW-4000)
Power:	1½ HP (WAW-3000) 4 HP (WAW-4000)
Air Hose:	3/8" Minimum 1/2"–50 ft. — **Part No. 9600-0121**

Blo-Gun Air/Water Actuated Tube Cleaning System

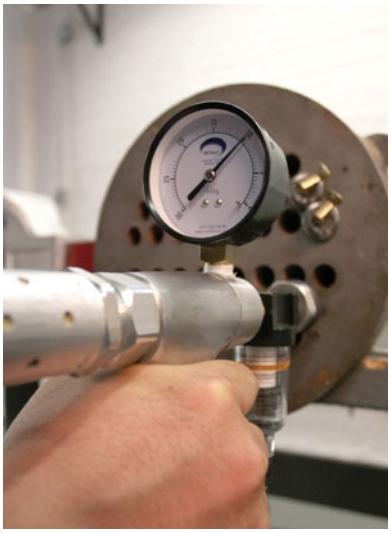
Applications

- Cleaning Tubes in Heat Exchangers, Condensers, Chillers, Absorbers, Water Heaters, Coolers and Other Small Diameter Pressure Vessels
- 3/8 to 1-Inch (9.5 to 25.4 mm) Outer Diameter Tubes
- Removing Light to Medium Soft Deposits
- Ideal for Removing Soft Mud or Marine Growth That Is Typical in Steam Condensers, Chillers and Absorbers

Blo-Gun Kit Includes

- **Blo-Gun** with Spare Shield
- Package of 25 Blo-Plugs
- Package of 6 Blo-Brushes
- Air / Water Hose
- Tool Box
- Service Manual

Vacuum Leak Detector™



Applications

The Vacuum Leak Detector™ (VLD) is a simple test instrument used by manufacturers and users of condensers, heat exchangers and other tubular apparatus to identify leaky tubes. One man does the job. He seals the far end of each tube with a snap type tube plug, then he presses the rubber coated nozzle into the near end of the tube and depresses the trigger. Compressed air flows through a venturi chamber to produce a vacuum in the tested tube. When this vacuum reaches a satisfactory level, he releases the trigger. A steady Gauge reading indicates a good tube. A falling vacuum indicates a leaky tube. Using a 90 PSI dry clean air, a typical tube (1-inch Outer Diameter x 20 Gauge and 20 feet long) can be tested in 6 to 8 seconds. Tool weighs 2¼ lbs. and is equipped with a muffler, so it operates quietly even in confined areas.

Tube Plugs

Wilson Tube Plugs offer a low-cost, quick and efficient method of sealing leaking tubes. They are installed easily, so the pressure vessels get back on line. Minimum driving is required to establish a positive seal in seconds.

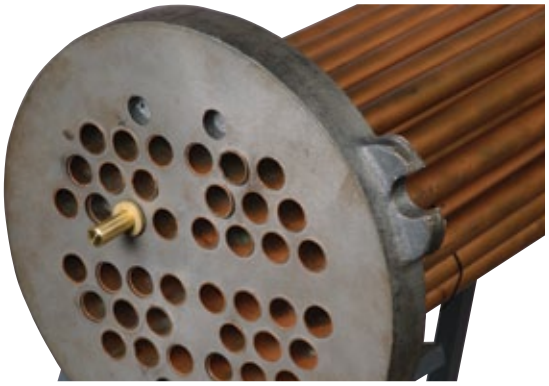
Available Materials:

- Brass
- Carbon Steel
- Stainless Steel
- Fiber
- Monel (made to order)*
- Custom Sizes and Materials (We can make tube plugs from any material in any size. Contact us with your requirements.)

Tube plugs are packaged 10 per box, except 1½-inch Outer Diameter or larger plugs which are packaged individually.

How to use the Two Piece Tube Plugs:

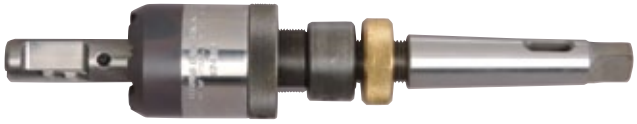
- For sealing off leaky condenser and heat exchanger tubes without damaging tubesheets.
- Place correct size ring in tube. (Order by tube Outer Diameter and Gauge.)
- Tapered plug is driven into ring, which is tapered on the inside and is parallel to tube on the outside. This gives even expansion to the ring and a long contact to the seal. Available in a variety of metals: stainless steel 316 or 304, carbon steel and others.



Two Piece Tube Plug —
Condensers and Heat Exchangers

One Piece Tube Plug —
Condensers, Heat Exchangers and Boilers

Grooving Tools



Features

- Grooving of Tubesheets for Heat Exchangers, Condensers or Boiler Drums
- Adds Strength to Tube-to-Tube Seat Joint
- Adjustment for Depth of Groove and Position of Tubesheet

Standard bits are 1/8" x 1/4" x 1/8". Other bit configurations available, consult factory.

Push-Type Tube Cutters

Features

- For Cutting and Removal of Ferrous or Nonferrous Tubes
- Cuts Tubes in Seconds
- Attaches to Electric or Pneumatic Drills
- Push to Cut
- Pull to Retract Bit

Applications

- Used Where There Is Considerable Projection to Be Cut Off
- Available for 2 to 5-Inch Projection
- To Order, Specify Outer Diameter and Projection

One-Revolution Tube Cutters

Applications

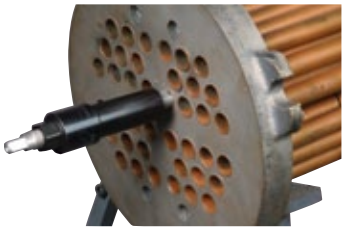
- For Use in Heat Exchangers
- Cuts Up to 7-Inch-Thick Tubesheets
- No Special Drive Required, Uses Either a Ratchet or Hand Wrench
- Easily Replaceable Cutter

Tube Knockout / Collapsing Tools

Features

- Minimizes Tube Removal Costs
- Specifically Designed as a Companion to the Tube Wall Reducing Tool

Manual Tube Puller



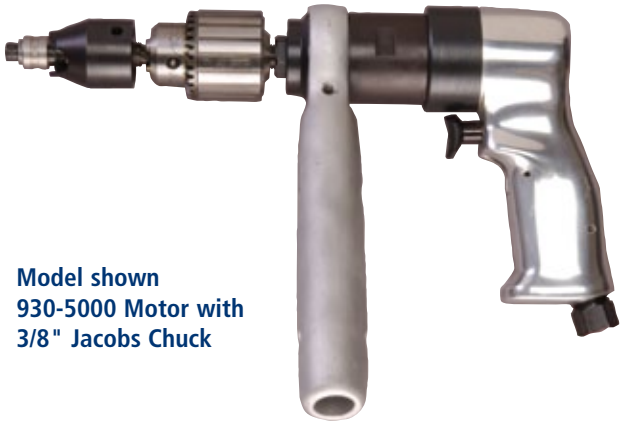
Features

- Easy to Use
- Only Hand Wrenches for Insertion and Withdrawal
- Overall Length Held Short to Operate in Tight Places

Tube End Facing Tools—Insert Type: 5/8 to 2-Inch OD Tubes

Features

- Adjustable Collar Provides Projection Control
- Cutter Bits Can Easily Be Replaced, Lengthening the Life of the Product
- Delrin Pilots Are Available for 5/8-Inch and Larger Tools for Non-Scoring Applications



Model shown
930-5000 Motor with 3/8" Jacobs Chuck

Wilson Power Puller: WPP-1500

Features

- Heavy-Duty, Double-Acting Hydraulic Cylinder with Hydraulic Return
- Safety Relief Valve on Cylinder Protects Against Overpressurizing
- Quick-Acting, Cylinder-Mounted Safety Lock Provides Positive Engagement with Notched Spear Extension
- All Hose Connections to Cylinder and Pump Have Quick-Disconnect Couplings

C Series Air-Driven Tube Cleaning System

Applications

- Cleaning Curved or Straight Tubes or Pipes in Water Tube Boilers, Other Pressure Vessels, Transmission Lines and Many Other Applications
- 1 to 2½-Inch (25.4 to 63.5 mm) Outer Diameter Tubes
- Removing Light to Medium Soft Deposits

C Series Kit Includes:

- **C Air Motor**
- Type C Flexible Holder
- Expanding Steel Brush and Spare Refill Set

- and -

- Model A Cutter Head and Spare Set of Cutters
- 25-Foot Air Hose with Coupling
- Set of Spare Rotor Blades and Rotor Wrench
- Tool Box
- Service Manual

Specifications	
Speed:	9,000 rpm
Air:	80 to 125 psi
Motor:	Steel rotor blades and precision ground surfaces result in high-performance and durability

ECT Series Air-Driven Tube Cleaning System

Applications

- Cleaning Curved or Straight Tubes in Boilers, Superheaters, Economizers and Other Large Diameter Pressure Vessels
- 2½ to 7½-Inch (63.5 to 190.5 mm) Outer Diameter Tubes
- Removing Medium to Heavy Hard Deposits

ECT Series Kit Includes:

- ECT Air Motor with Set of Spare Rotor Blades
- CHJ or SE Cutter Head with Spare Set of Cutters, Cutter Pins and Hinge Pins
- Tool Box and Set of Wrenches
- Service Manual

Specifications	
Speed:	10,000 rpm
Air:	80 to 125 psi
Motor:	Phenolite rotor blades and precision ground surfaces result in high performance and durability

Wils-Away™ Electric Tube Cleaning System

Applications

- Cleaning Straight Tubes in Fire Tube Boilers, Air Heaters and Other Pressure Vessels
- 1½ to 4½-Inch (38.1 to 114.3 mm) Outer Diameter Tubes
- Removing Soot and Scale

Wils-Away™ Kit Includes:

Underwriters Laboratories Inc.®
Specific Models Only

CE
Specific Models Only

- Electric Drive Unit with Detachable Dolly and Built-In Tool Box
- Foot Pedal-Single Direction
- 25-Foot (7.6 M) Flexible Shaft & Casing
- Vacuum Connector Nozzle
- Set of 6 Steel Spiral Brushes and Adapter

- or -

- Expanding Steel Brush with Spare Refill Set and Adapter
- Service Manual

Specifications	
1 HP Drive Unit:	62 lbs. (28 kg)
2 HP Drive Unit:	72 lbs. (32 kg)
Dimensions:	12" H x 23" W x 11½" D (305 x 584 x 292 mm)
Speed:	1,725 rpm
Power:	1 HP (WAW-1500/1600) 2 HP (WAW-2500/2600)
Current:	115 Volt 50/60Hz (WAW-1500) 220 Volt 50/60Hz (WAW-1600) 220 Volt 60Hz (WAW-2500) 220 Volt 50Hz (WAW-2600)

FT Series Air-Driven Tube Cleaning System

Applications

- Cleaning Pipes or Straight Tubes in Fire Tube Boilers and Other Pressure Vessels
- 2 to 4½-Inch (50.8 to 114.3 mm) Outer Diameter Tubes
- Removing Powdery and Gummy to Soft Scale

FT Series Kit Includes:

- **EP** Air Motor
- Type C Flexible Holder
- Expanding Steel Brush and Spare Refill Set

- or -

- Expanding Scraper and Spare Set of Scrapers
- Set of Spare Rotor Blades and Rotor Wrench
- Tool Box
- Service Manual

Specifications	
Speed:	Up to 6,000 rpm
Air:	80 to 125 CFM
Motor:	Positive starting, non-stalling; six-blade rotor and double-chambered power seal cylinder

3- and 5-Roll Condenser Expanders

Series 41-A and 44-A 3-Roll Condenser Expanders were primarily designed for very small tubes as generally found on lubricating oil coolers and heat exchangers of similar characteristics. The Model 41-C, 44-C, 44-D, 47-C and 47-D 3-Roll Expanders are suitable for expanding tubes in condensers and/or evaporators, heaters or coolers. These long-reach expanders are particularly suitable for thick and multiple tubesheet applications where step rolling is practiced. Series 72-C, 72-D and 73-C and 73-D 5-Roll Condenser Expanders are used on light Gauge tubes of stainless steel, titanium and materials of similar hardness.

Model 41-A Expander

Specifications — 41-A and 44-A Expanders	
Outer Diameter:	1/4 (6.4 mm) to 3/8-inch (9.5 mm)
Gauge:	18 (1.2 mm) to 28 (.4 mm)
Tube Sheet:	41-A — 1/4 (6.4 mm) to 1-inch (25.4 mm) 44-A — 1 (25.4 mm) to 3½-inch (89.0 mm)

Model 47-D Expander

Specifications — 47-C and 47-D Expanders	
Outer Diameter:	47-C — 1/2 (12.7 mm) to 1½-inch (38.1 mm) 47-D — 1/2 (12.7 mm) to 2½-inch (63.5 mm)
Gauge:	9 (3.8 mm) to 22 (.7 mm)
Tube Sheet:	47-C — 1¼ (38.1 mm) to 12-inch (304.8 mm) 47-D — 2 (50.8 mm) to 12¾-inch (323.9 mm)

Model 41-C Expander

Specifications — 41-C Expander	
Outer Diameter:	1/2 (12.7 mm) to 1½-inch (38.1 mm)
Gauge:	9 (3.8 mm) to 22 (.7 mm)
Tube Sheet:	1/2 (12.7 mm) to 1½-inch (38.1 mm)

Model 72-C Expander

Specifications — 72-C and 72-D Expanders	
Outer Diameter:	1/2 (12.7 mm) to 1½-inch (38.1 mm)
Gauge:	13 (2.4 mm) to 25 (.5 mm)
Tube Sheet:	72-C — 1/2 (12.7 mm) to 1½-inch (38.1 mm) 72-D — 1/2 (12.7 mm) to 2¼-inch (57.2 mm)

Model 44-C Expander

Specifications — 44-C and 44-D Expanders	
Outer Diameter:	44-C — 1/2 (12.7 mm) to 1½-inch (38.1 mm) 44-D — 1/2 (12.7 mm) to 2½-inch (63.5 mm)
Gauge:	9 (3.8 mm) to 22 (.7 mm)
Tube Sheet:	44-C — 1¼ (31.8 mm) to 6-inch (152.4 mm) 44-D — 2 (50.8 mm) to 6¾-inch (171.5 mm)

Model 73-D Expander

Specifications — 73-C and 73-D Expanders	
Outer Diameter:	1/2 (12.7 mm) to 1½-inch (38.1 mm)
Gauge:	13 (2.4 mm) to 25 (.5 mm)
Tube Sheet:	73-C — 3/4 (19.1 mm) to 5½-inch (139.7 mm) 73-D — 1½ (38.1 mm) to 6¼-inch (158.8 mm)

Wils-Tronic™ Tube Roller

Features

- Two Modes of Operation (Manual and Automatic)
- Constant rpm at Various Torque Settings
- Auto Cycle for Continuous Rolling of Multiple Tubes
- Fully Programmable Keypad
- Security Lockout by Password
- Very Low Noise Level
- Telescopic Shaft Eliminates Operator Fatigue
- Flexible Tool That Allows for a Variety of Tools, Including Expanders, Cutters and Reamers

Specifications	
Power Requirements:	220V 3 Phase 50 or 60 Hz *or* 440V 3 Phase 50 or 60 Hz
Speed:	Up to 1,400 rpm
Torque: (Programmable)	1 to 300 ft.-lb.
Weight:	350 lbs.
Work Envelope Dimensions:	Up to 10 ft. x 10 ft. with Standard Cart

Mountable Stand, Included with Mobile Base
Heavy-Duty Dual Ball Bearing Turret Assembly
Telescopic Shaft
3 Phase Vector Motor Assembly
Optional Quick Connector and Extension Coupling
Electronic Control Box
Wilson
Smarter Tools for Smarter Work
Mobile Base with Casters

Wilson Torq-Air Matic™

Applications

- Rolling ferrous and nonferrous tubes in heat exchangers and other pressure vessels
- 1/2 to 1 ½-Inch (12.7 to 38.1 mm) Outer Diameter Tubes

Torq-Air-Matic™ Kit Includes:

- **Torq-Air-Matic** Drive
- Set of Rotor Blades
- Operating Hose
- Mandrel Connector
- Air Line Filter
- 1 Quart Expander Lube
- Hex Keys
- Carrying Case
- Service Manual

Specifications	
Weight:	3A: Drive: 9 lbs. (4 Kg) Kit: 21 lbs. (9.5 Kg)
Air Consumption:	3A: 32 SCFM Maximum
Length:	3A: 9.5" (241 mm)
Side to Center:	2" (50.8 mm)
Drive:	3A: 1/2-inch Ball Drive Spindle

3-A Torq-Air-Matic

Electric Tube Rollers: 1/2 to 3-Inch OD Tubes

Applications

- Rolling Ferrous and Nonferrous Tubes in Boilers, Heat Exchangers, and Other Pressure Vessels

Features

- Wilson Electric Tube Rollers Are Durable, Reliable and Easy to Use.
- Both the 41238 and 22488 Include Dead Handles for Added Leverage.
- On-Off and Reverse Switches Conveniently Located on the Fixed Handle.
- Exceeding their Stall Points Will Not Damage These Rugged Machines.
- Wilson Offers a Complete Line for Various Tube Sizes and Voltages.

Series 22488 with CB Expander

Enforcer-500 Tube Expanding Systems

Features

- Two Modes of Operation (Manual and Automatic)
- Constant RPM at Various Torque Settings
- Auto Cycle for Continuous Rolling of Multiple Tubes
- Fully Programmable Human-Machine Interface for Parameter Input
- Pressure Regulation System to Adjust Level of Lifting Assistance for Arm and Tool
- Automatic Lubrication System (Optional)
- Outstanding Torque Accuracy (+/- 0.5 ft-lbs.)
- Very Low Noise Level
- Low Operator Fatigue

Self-Lubricating Motor Assembly

Specifications	
Power Requirements	220V 50 Hz, or 60 Hz; 440V 50 Hz, or 60 Hz
Speed	50 to 1,000 rpm
Torque	1 to 30 ft. lbs. (programmable)
Weight	350 lbs. (700 lbs. incl. Dead Wt.)
Footprint	29 in. x 37 in.
Total Height	7 ft., 4 in.
Vert. Arm Range	1 to 6 ft.
Horiz. Arm Range	8 ft.
Arm Reach	4 ft.

Series 909 Right-Angle Tube Rollers

Applications

- Rolling Ferrous and Nonferrous Tubes in Water and Fire Tube Boilers and Other Pressure Vessels
- Ideal for Hard-to-Reach and Confined Spaces

Features

- Lightweight
- Reversible – Torque-Controlled (2000, 2100)
- Reversible – Stall Type (1600, 1700, 1900)
- Heavy-Duty Gear System
- Right-Angle Design Gives Users Built-In Leverage
- Powerful Motor
- 3/4-Inch Square Spindle

Kit Includes:

- Right-Angle Tube Roller
- Quick Connector (3/4-Inch Square) 21137-0756
- Operating Hose 8973-0008
- Inline Lubricator 53360
- Adjusting Tool 909-2127 (2000 and 2100 Only)
- Carrying Case 44099
- Service Manual SM-253 (2000, 2100), SM-156 (909-1600, 1700), SM-253 (909-1900)

The 909 Torque-Controlled Rolling Motor has the ability to control the torque, simply by adjusting this dial ranging from 150 to 305 ft.-lb.

Series 909-1700 / with 114 Flare Expander

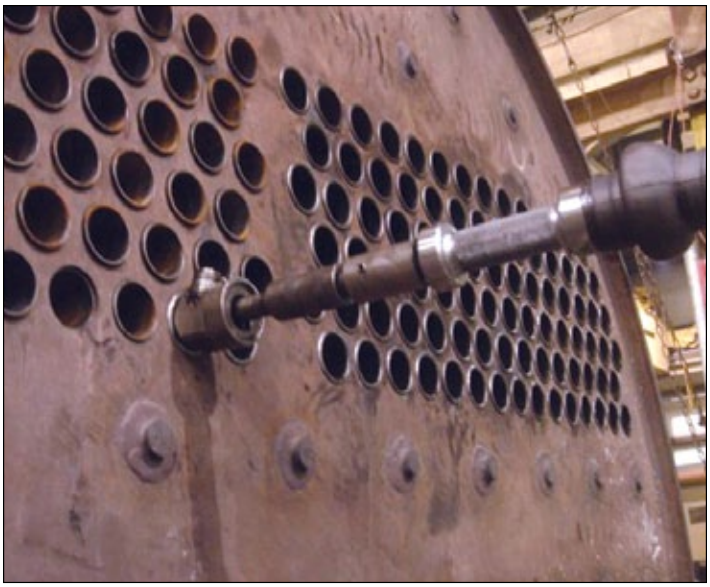
Series 909–1600, 1700

Series 909–1900

Series 909–2000, 2100

Series 909 Kit

Wilson Combination Beading Expander



Combination Beading Expander in Use with 909 Right Angle Pneumatic Tube Roller

The Wilson Combination Beading Expander is one of our smartest tools! Rather than expand a tube, then manually bead it and then re-roll it with a straight roll expander, the patented Combination Beading Expander (CBE) from Thomas C. Wilson does all three jobs in one seamless process.

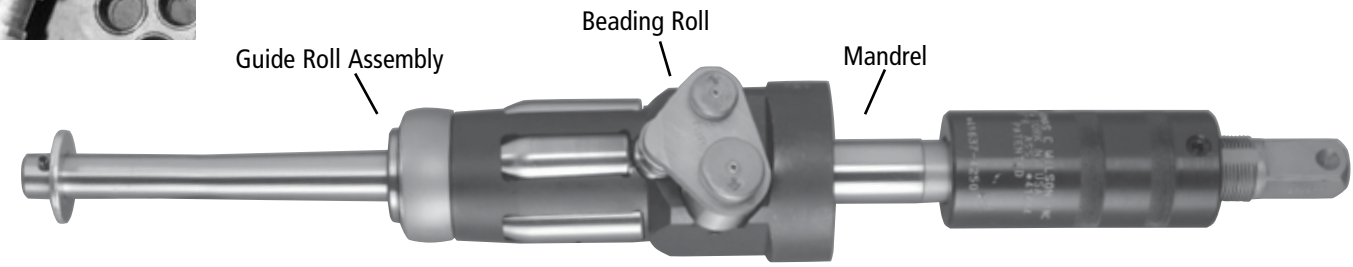
And, the Wilson CBE doesn't just save time, cut labor costs and reduce your equipment investment: it produces a perfect bead every time! Designed primarily for the fabrication and re-tubing of fire tube boilers, the Combination Beading Expander rolls and beads 2-inch, 2½-inch and 3-inch Outer Diameter tubes, 10 to 13 Gauge.

Applications

- Expand and Bead 2, 2½ and 3-Inch Tubes in One Operation
- For the Fabrication and Re-tubing of Fire Tube Boilers

Features

- Turn three operations (expanding, beading and rerolling) into one. Time-saving, labor-reducing process performed by just one tool!
- Cut labor costs by 50 to 65%!
- Purchase and maintain one tool instead of three.
- Minimal employee training or experience required.
- Produce a perfect, tight bead every time!
- Eliminate all noise for beading operation.



Boiler Tube Plugs

Wilson Tube Plugs offer a low-cost, quick and effective method of sealing off leaky tubes. They are inserted easily, allowing the return of tubular units back on-stream without undue interruption of process schedules. Only a minimum amount of driving is required to accomplish a positive seal without special tools. Plugs may also be welded. Certification and traceability are provided.

Hydraulic Tube Cutters

The Wilson Hydraulic Tube Cutter quickly and efficiently cuts tubes in front of the tubesheet (prior to flaring and / or beading) in seconds. In fact, it cuts a 2-inch Outer Diameter tube in just 8 seconds!

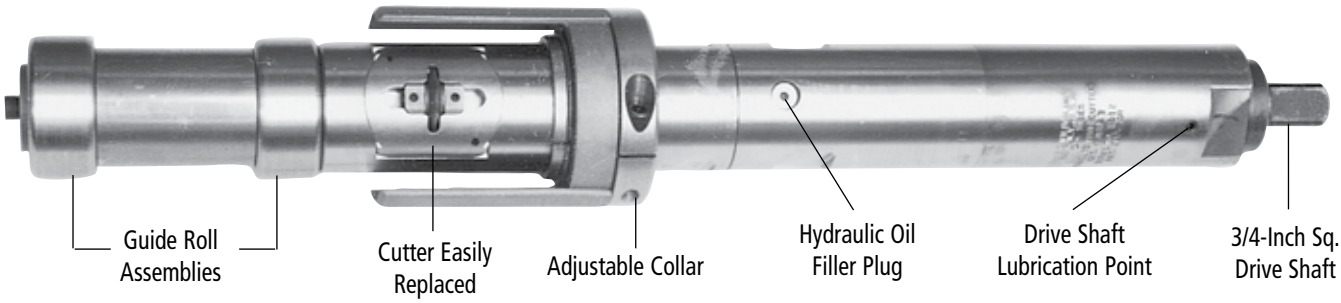
The Wilson Hydraulic Tube Cutter automatically raises the cutter wheel, cleanly cutting through the tube. When the rolling motor is reversed, the cutter wheel is automatically retracted.

This tool needs a minimum 1/2-inch projection to trim tubes, and an adjustable collar ensures that tubes are consistently cut at precisely the right position.

Kit Includes:

- Hydraulic Tube Cutter with Guide Rolls
- 3 Sets of Cutter Wheels and Pins
- Hex Keys
- Service Manual – SM146C

Overall tool length is 22 inches.



U.S. Patent No. 4,424,629

Boiler Tube Expanders

Series 38 Expander

Features

- 1-inch (25.4) up to 1¾ -inch (44.5)
- Self-feeding
- Flaring style
- Available for tubesheets 1/2-inch (12.7) to 2⅝-inch (66.7)
- Various mandrel lengths available

Series 114 Expander

Features

- 2-inch (50.8) up to 4½-inch (114.3)
- Self-feeding
- 2 flare rolls — 4 rolls
- Available for tubesheets 1/2-inch (12.7) to 2⅝-inch (66.7)
- Various mandrel lengths available

Series 116 Expander

Features

- Four-roll
- Two-flare
- Self-feeding
- Up to 3/4-inch tubesheet
- Non-parallel expansion

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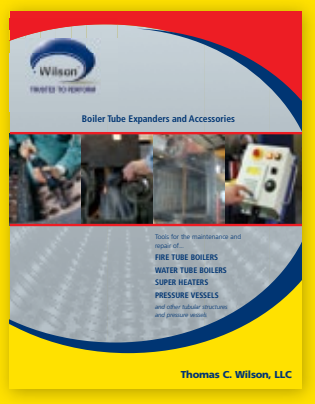

Ask about our other catalogs for a complete listing of our products:

Boiler Tube Expanders and Accessories

Heat Exchanger Tube Expanders and Accessories

Tube Cleaners and Accessories